

Recombinant Human AXL Receptor Tyrosine Kinase, GST-tagged

Cat. No. AXL-539H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human AXL was expressed by baculovirus in *Sf9 insect cells* using an N-terminal His tag. MW = 77 kDa.

Species

Human

Source

Sf9 Cells

Description

AXL is a member of the receptor tyrosine kinase family which has oncogenic potential and is implicated in human myeloid leukemia. AXL is a member of a complex signaling network that is involved in the control of cell proliferation and differentiation. Overexpression of AXL cDNA in NIH 3T3 cells induces neoplastic transformation of these cells with the concomitant appearance of a 140kDa AXL tyrosine-phosphorylated protein. Expression of AXL cDNA in the baculovirus system results in the expression of the appropriate recombinant protein that is recognized by antiphosphotyrosine antibodies, confirming that the AXL protein is tyrosine phosphorylated.

Purity

>70%.

Specific Activity

140 U/mg. One unit is defined as the amount of enzyme that will transfer 1 nmol phosphate to Tyr substrate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl₂, 3 mM MnCl₂, 1 mM DTT, 3 μM Na-orthovanadate, 0.5 mM ATP, 30 μg/ml Poly (Glu:Tyr)4:1 substrate, and 1 μg/ml recombinant AXL.

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Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 3 mM DTT.
Stability	>6 months at –80°C.

GENE INFORMATION

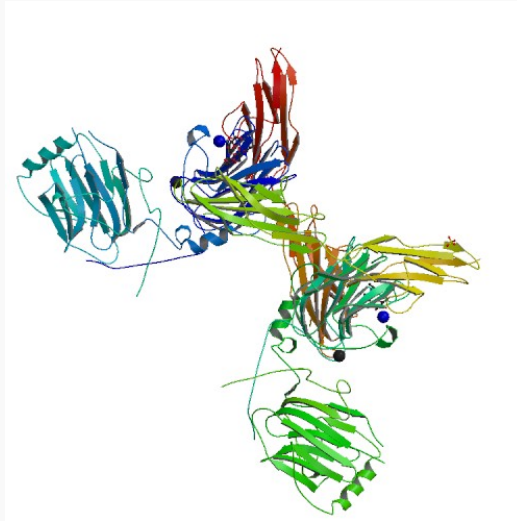
Gene Name	AXL AXL receptor tyrosine kinase [Homo sapiens]
Synonyms	AXL receptor tyrosine kinase; UFO; JTK11; AXL; oncogene AXL; AXL transforming sequence/gene; EC 2.7.10.1; AXL oncogene
Gene ID	558
mRNA Refseq	NM_001699
Protein Refseq	NP_001690
MIM	109135
UniProt ID	P30530
Chromosome Location	19q13.1
Function	transmembrane receptor protein tyrosine kinase activity; ATP binding; nucleotide binding; protein binding; receptor activity; transferase activity

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